

# GOMOS Daily Report 24-JUL-2004

## Level 0 and Level 1 products

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### 1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	28JUL2004 05:07:34
Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-4D (24JUL2004 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-4D (25JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	10
Nb of prods with errors	0

## 2. Summary of products arrived in PCF (Product Control Facility)

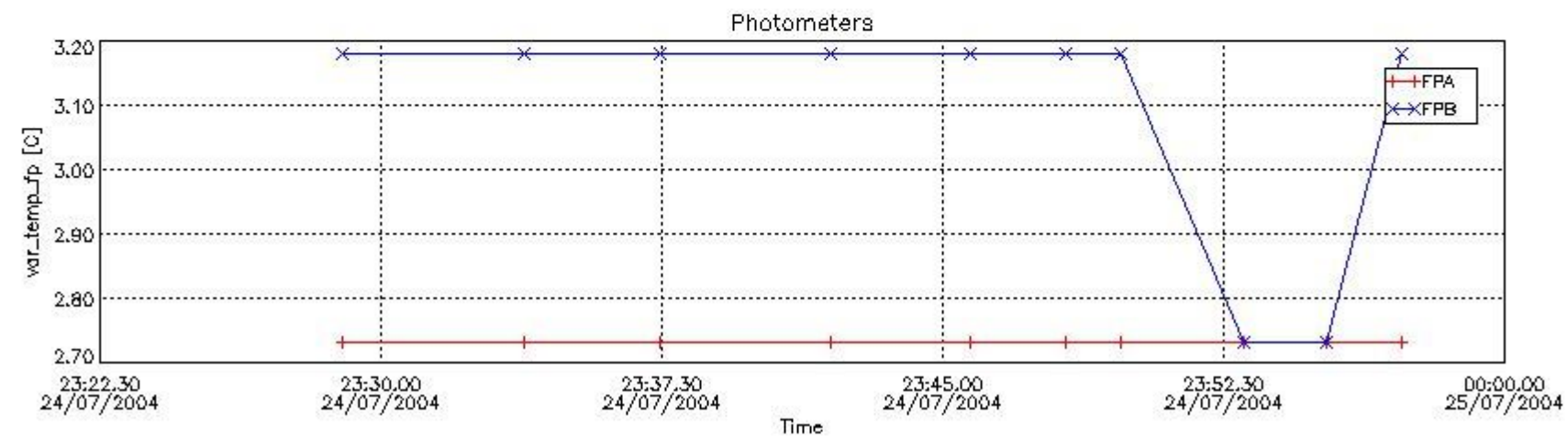
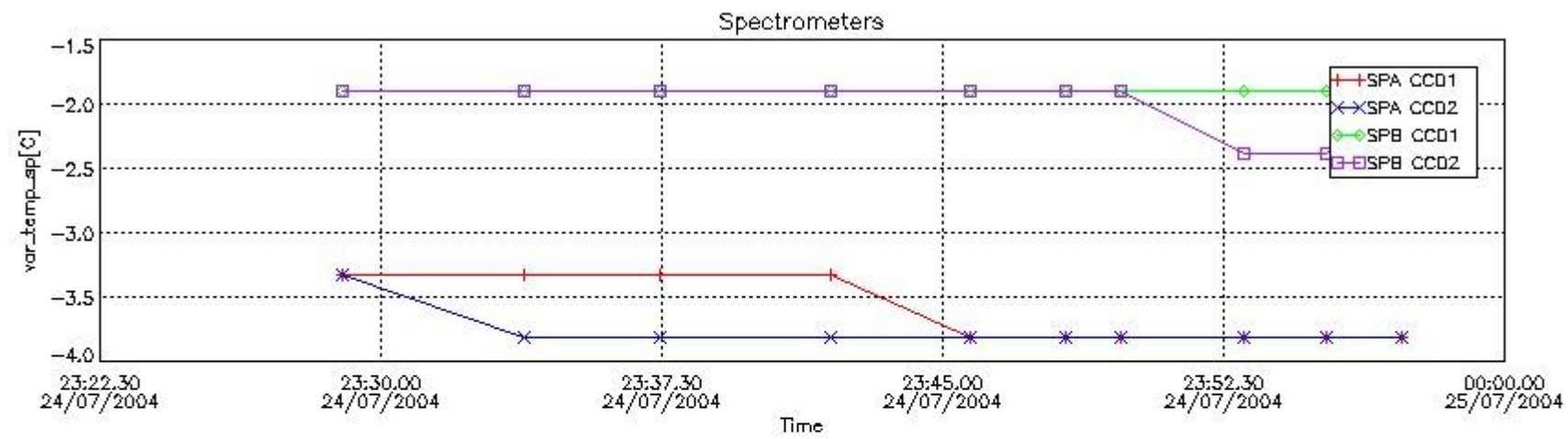
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Summary of processed GOM\_TRA\_1P products

**!Warning: No products without errors in DARK limb contitions found**

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040724_232858_000000632028_00474_12552_0011.N1	24-JUL-2004 23:28:58	Bright	62.500	142	49Del Cap	2.8500	8900.0	125	12552	No
GOM_TRA_1PNPDE20040724_233349_000000652028_00474_12552_0012.N1	24-JUL-2004 23:33:49	Bright	64.500	154	22Bet Aqr	2.8990	5700.0	129	12552	No
GOM_TRA_1PNPDE20040724_233726_000000432028_00474_12552_0013.N1	24-JUL-2004 23:37:26	Bright	42.500	11	53Alp Aql	0.76500	8000.0	85	12552	No
GOM_TRA_1PNPDE20040724_234201_000000832028_00474_12552_0014.N1	24-JUL-2004 23:42:01	Bright	82.500	61	8Eps Peg	2.1000	3900.0	165	12552	No
GOM_TRA_1PNPDE20040724_234543_000000402028_00474_12552_0015.N1	24-JUL-2004 23:45:43	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	12552	No
GOM_TRA_1PNPDE20040724_234816_000000422028_00474_12552_0016.N1	24-JUL-2004 23:48:16	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	12552	No
GOM_TRA_1PNPDE20040724_234946_000000382028_00474_12552_0017.N1	24-JUL-2004 23:49:46	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	12552	No
GOM_TRA_1PNPDE20040724_235302_000000402028_00474_12552_0018.N1	24-JUL-2004 23:53:02	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	12552	No
GOM_TRA_1PNPDE20040724_235513_000000432028_00474_12552_0019.N1	24-JUL-2004 23:55:13	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	12552	No
GOM_TRA_1PNPDE20040724_235716_000000402028_00474_12552_0020.N1	24-JUL-2004 23:57:16	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12552	No

## 3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



## 4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### *4.1 All products used the DSA observation for the DC computation*

#### *4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used*

No products without errors in DARK limb contitions found. No plot performed.

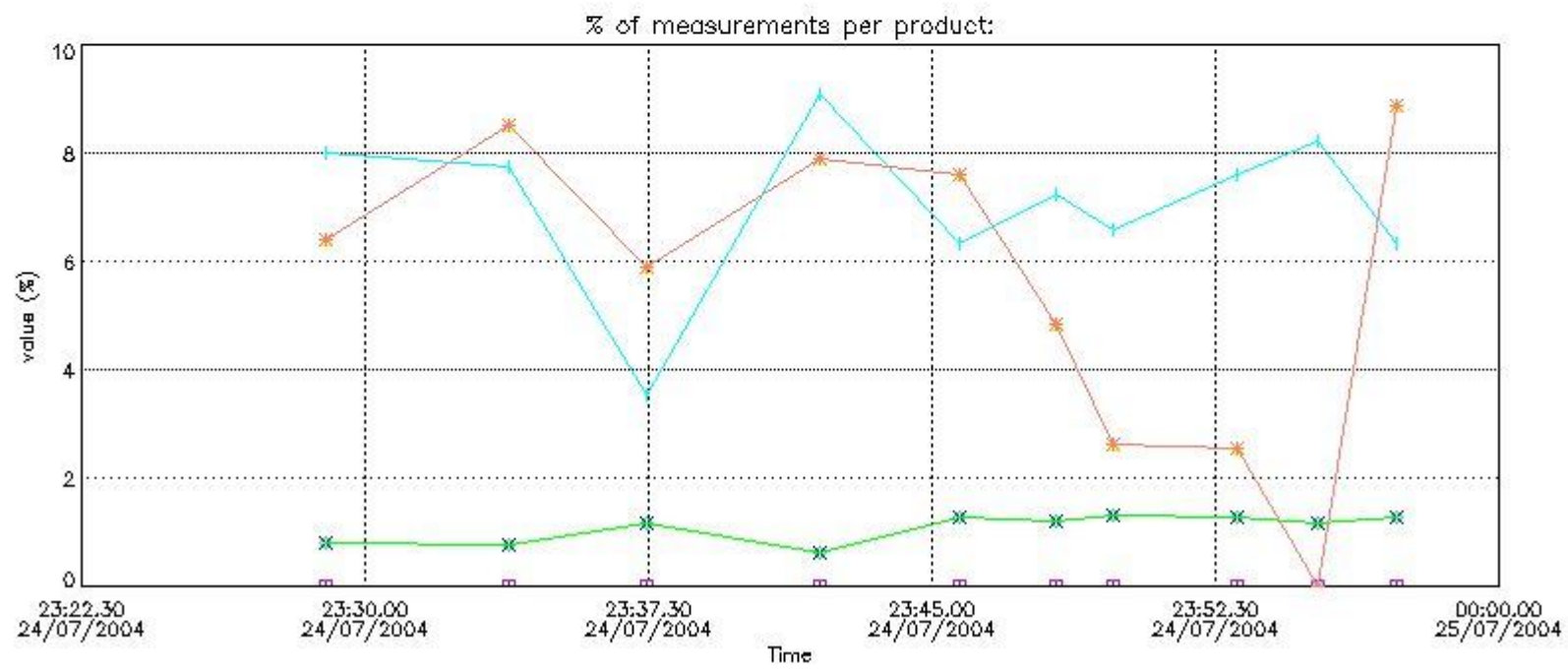
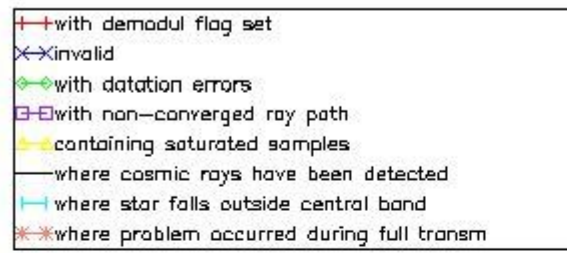
### 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

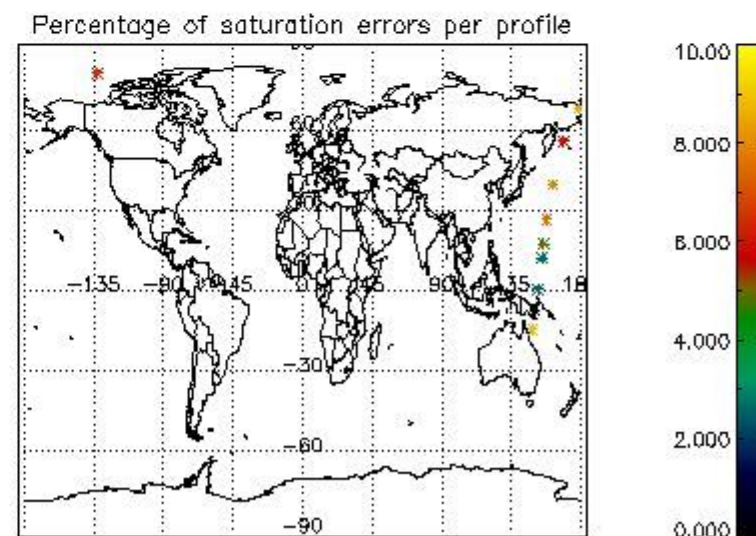
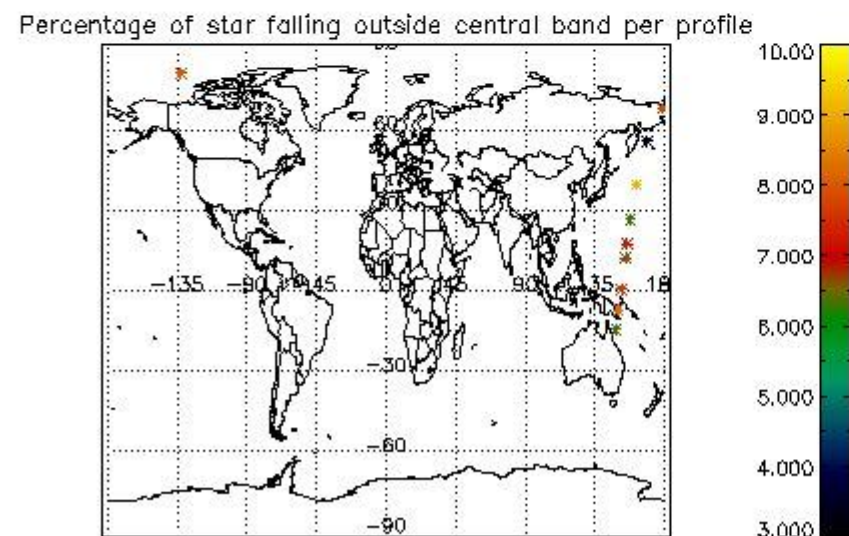
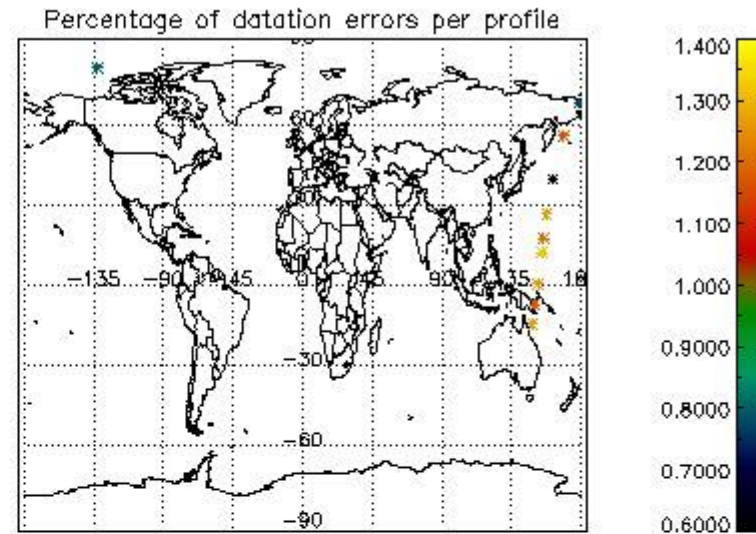
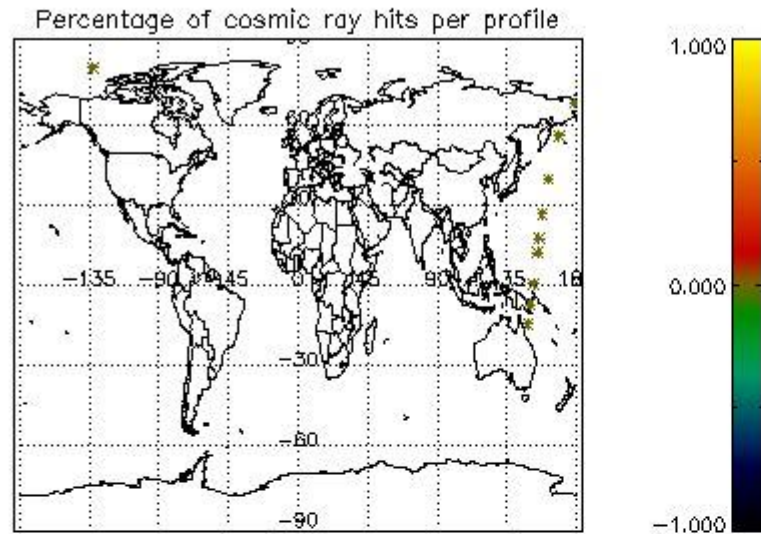
#### *5.1 Percentage of products during reporting period with:*

At least one measurement with demodulation flag set:	0.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

#### *5.2 Plot quality information per product (time dependant)*



5.3 Plot quality information per product (world map)



## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

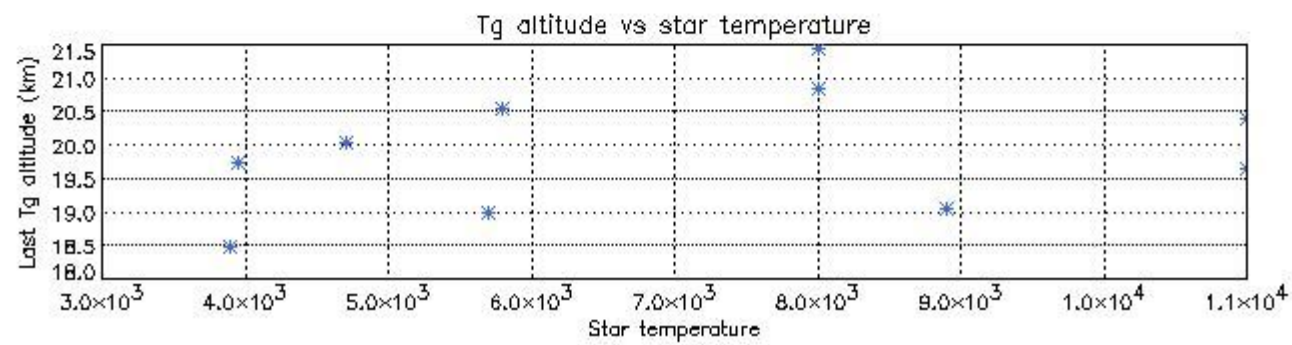
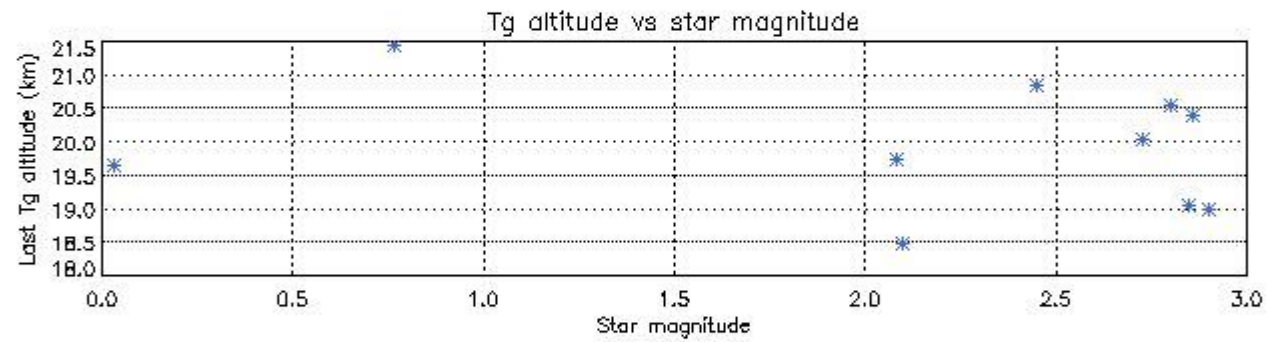
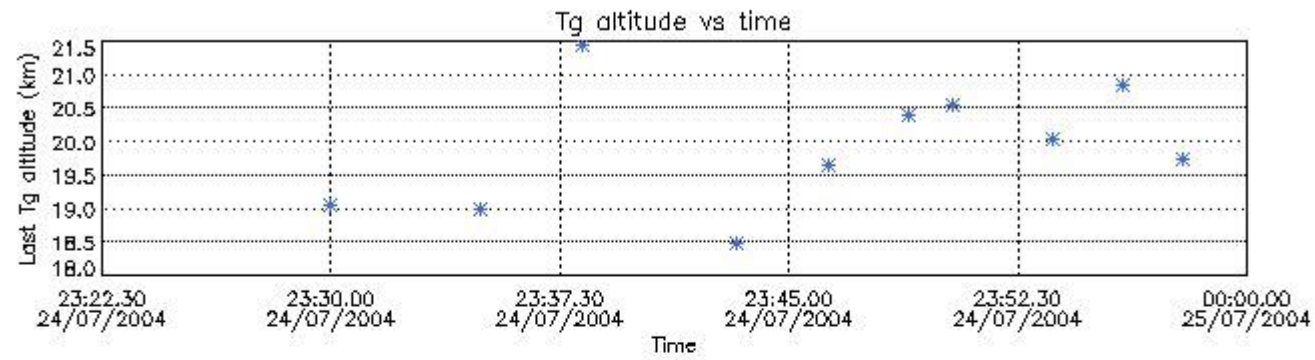
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	19.916	NaN
St. deviation:	NaN	0.91946	NaN
Maximum:	NaN	21.441	NaN
Minimum:	NaN	18.484	NaN
Number of data:	NaN	10.000	NaN

### 6.3 Plot for BRIGHT limb products



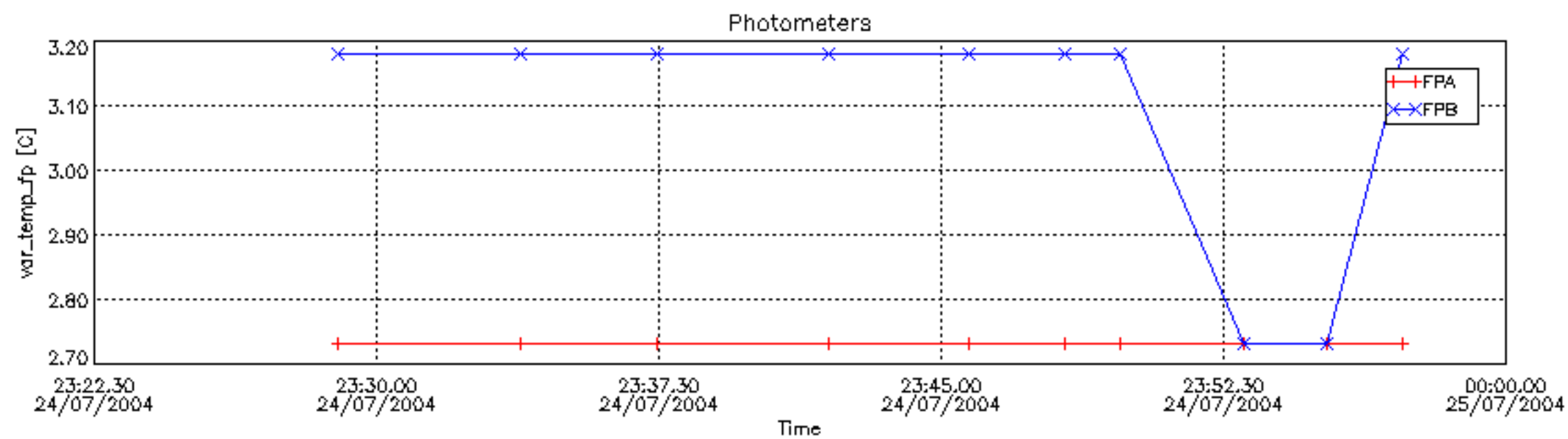
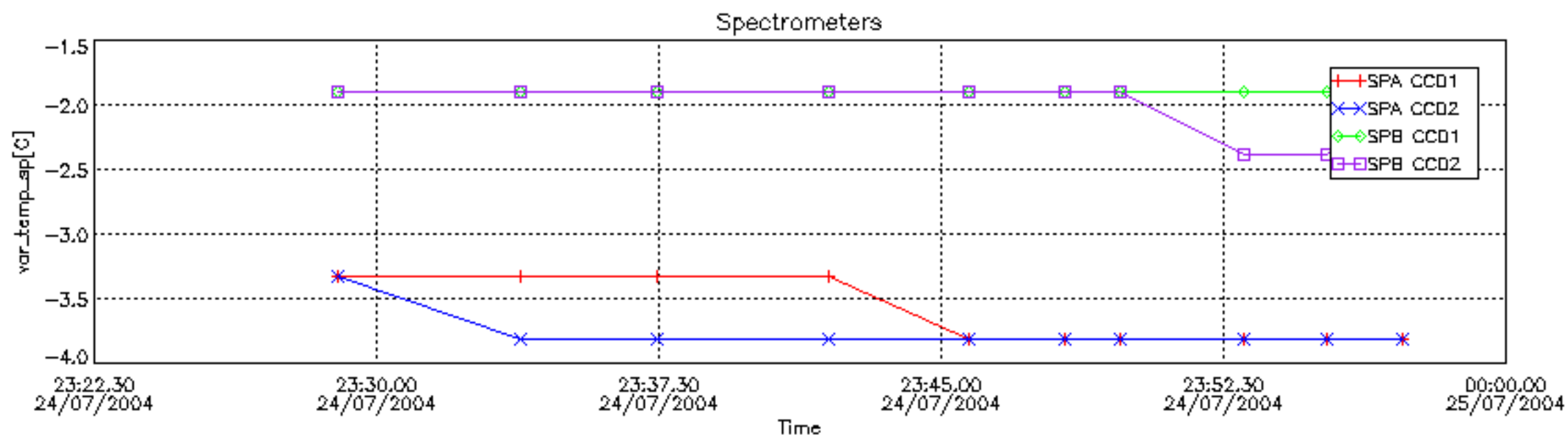
## Tangent altitude at which the star is lost

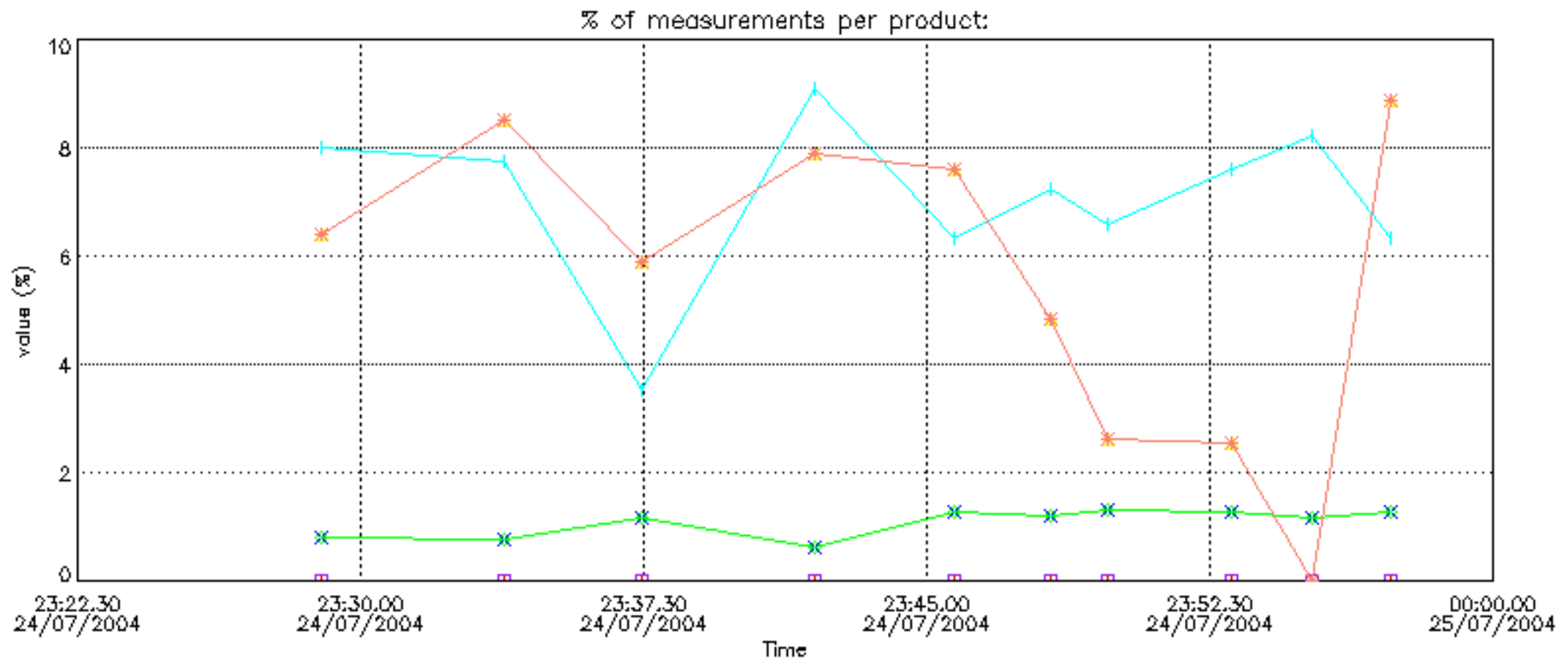


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

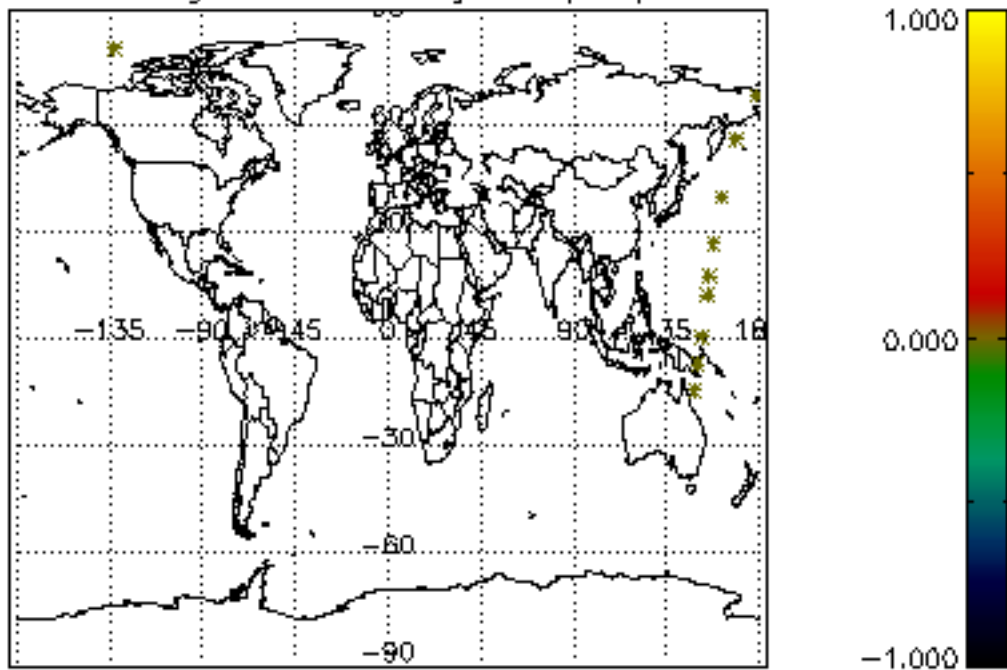
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	NaN	NaN	1462.2	1447.8
St. deviation:	NaN	NaN	6.8140	7.3779
Maximum:	NaN	NaN	1501.0	1491.0
Minimum:	NaN	NaN	1450.0	1434.0
Number of data:	NaN	NaN	12750.	12750.



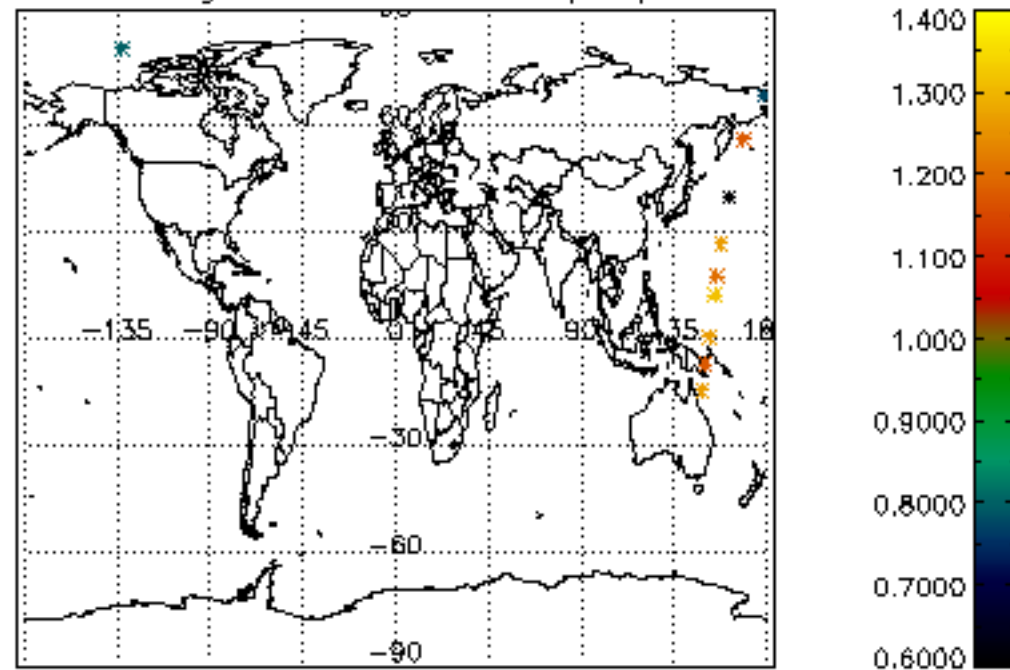




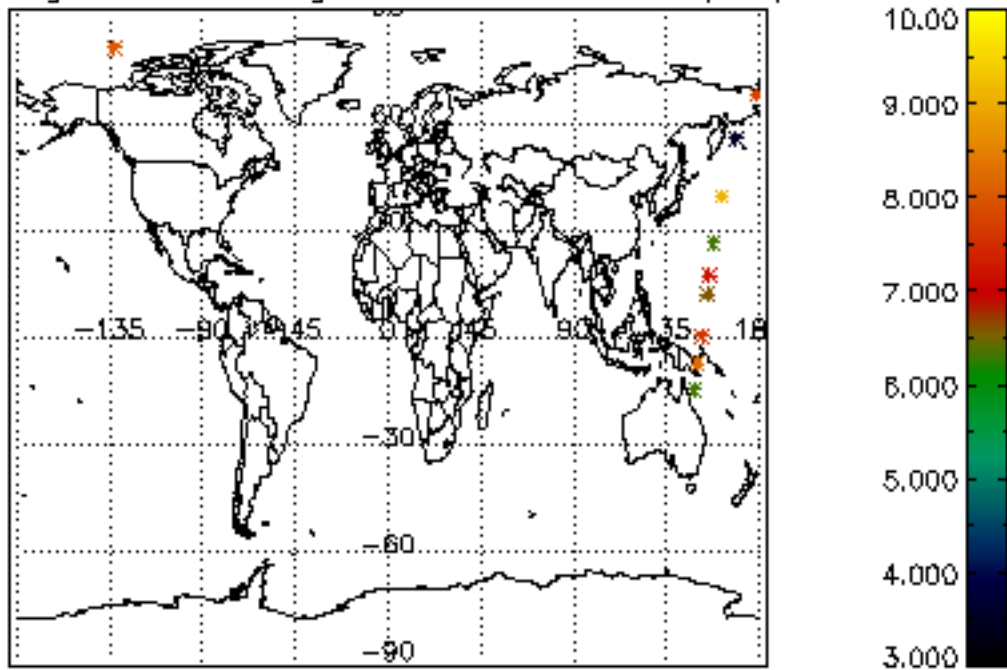
Percentage of cosmic ray hits per profile



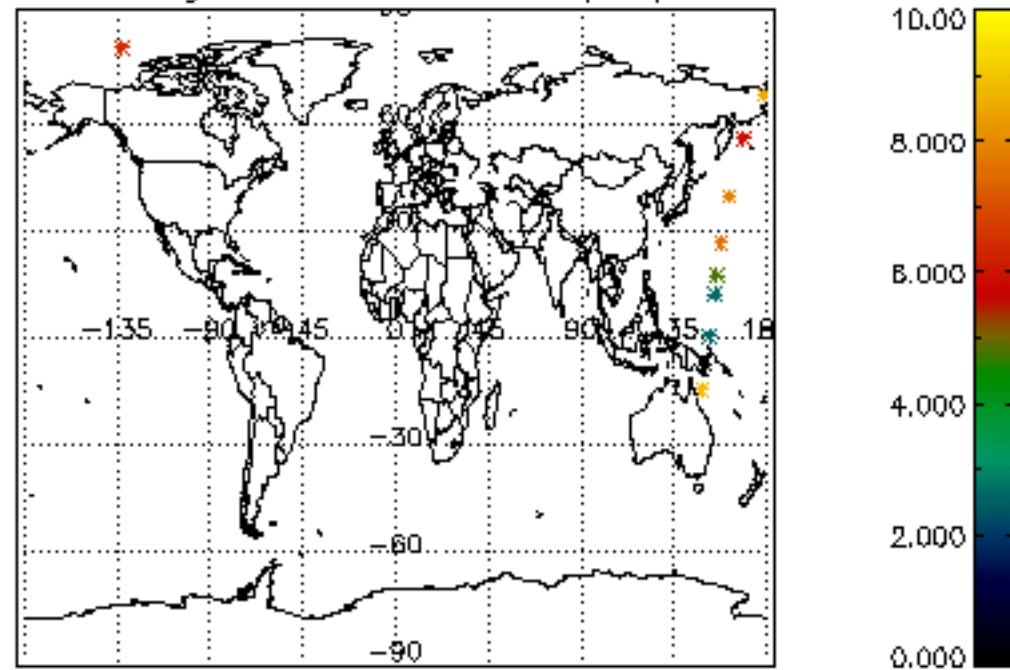
Percentage of datation errors per profile



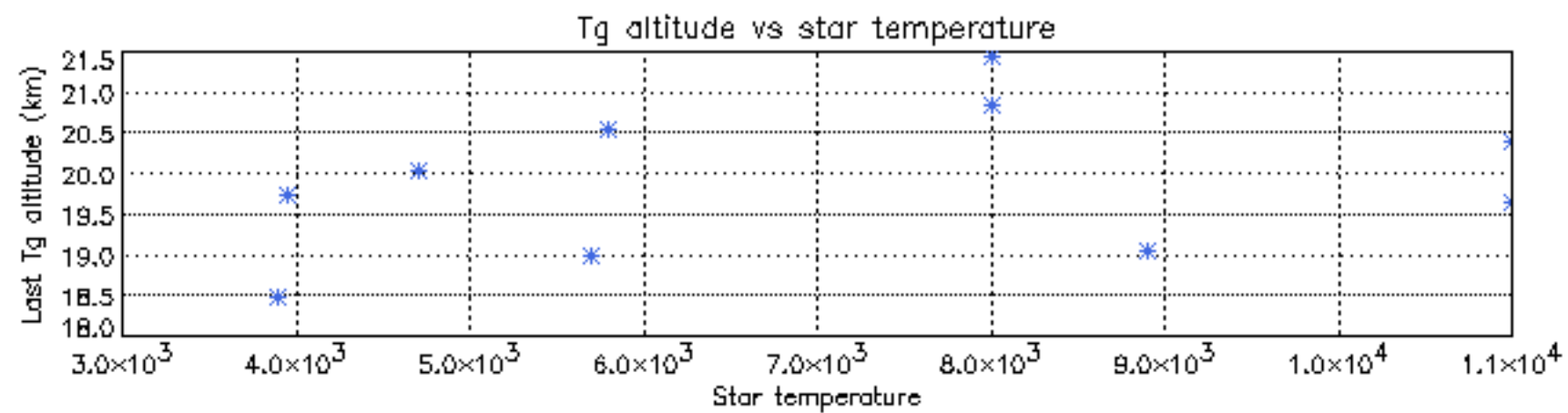
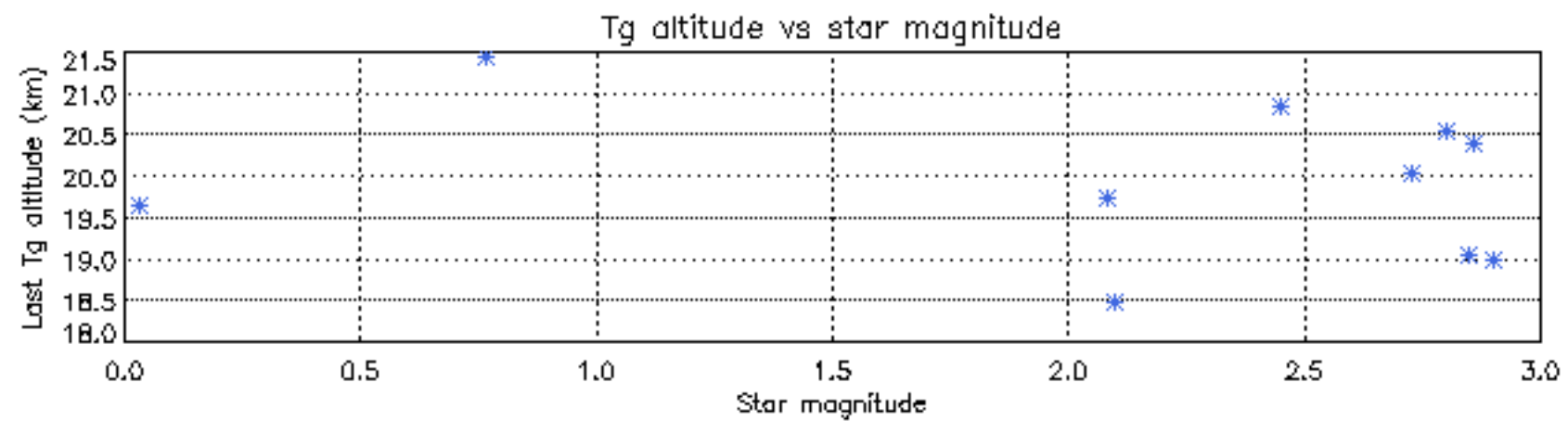
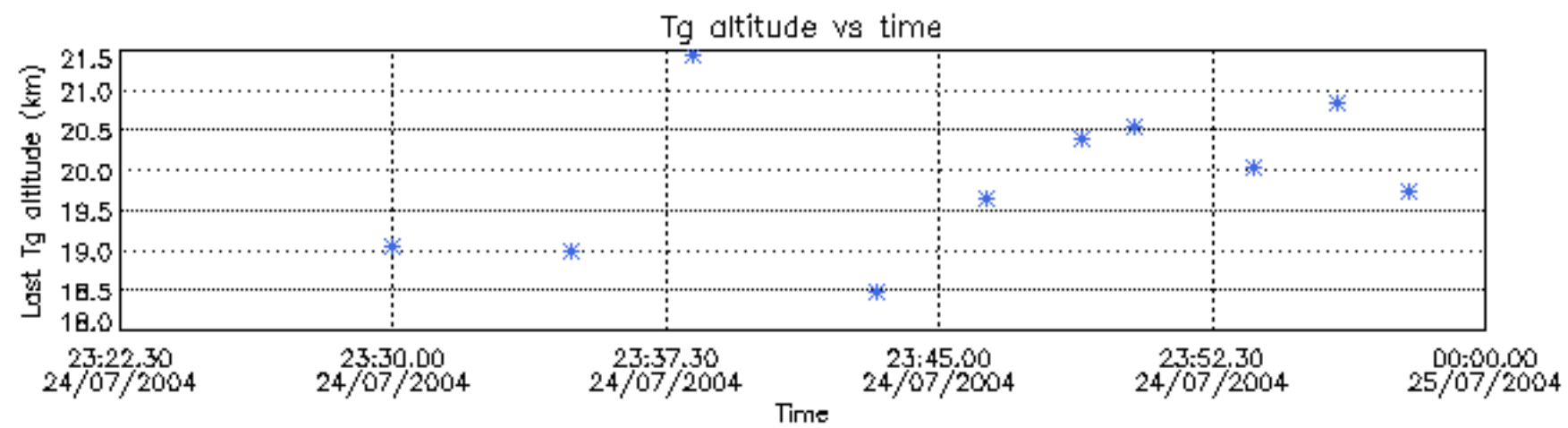
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



Tangent altitude at which the star is lost



/data4\_2/GOMOS/level0/GOM\_NL\_\_0PNPDE20040701\_012416\_000043092028\_00131\_12209\_0074.N1

1;	-831.6;	01-JUL-2004	01:24:16;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;occ;	95;	9;	12209
2;	-494.6;	01-JUL-2004	01:29:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12209
3;	-163.9;	01-JUL-2004	01:35:23;	Dark	;	77.5;	52;	16Bet Cet	;	2.04;	4500;occ;	155;	0;	12209
4;	36.9;	01-JUL-2004	01:38:44;	Dark	;	53.0;	9;	Alp Eri	;	0.45;	24000;occ;	106;	0;	12210
5;	314.6;	01-JUL-2004	01:43:22;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12210
6;	489.7;	01-JUL-2004	01:46:17;	Dark	;	58.5;	63;	Bet Gru	;	2.15;	2800;occ;	117;	0;	12210
7;	585.8;	01-JUL-2004	01:47:53;	Dark	;	86.5;	18;	24Alp PsA	;	1.17;	9700;occ;	173;	0;	12210
8;	746.2;	01-JUL-2004	01:50:33;	Dark	;	44.0;	45;	Alp Pav	;	1.94;	26000;occ;	88;	0;	12210
9;	975.1;	01-JUL-2004	01:54:22;	Dark	;	40.0;	141;	Bet Ara	;	2.84;	4600;occ;	80;	0;	12210
10;	1061.4;	01-JUL-2004	01:55:49;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;occ;	80;	0;	12210
11;	1169.8;	01-JUL-2004	01:57:37;	Dark	;	45.5;	40;	The Sco	;	1.86;	7100;occ;	91;	0;	12210
12;	1269.3;	01-JUL-2004	01:59:17;	Dark	;	46.0;	25;	35Lam Sco	;	1.62;	28000;occ;	92;	0;	12210
13;	1354.2;	01-JUL-2004	02:00:41;	Dark	;	55.0;	116;	19Del Sgr	;	2.70;	4100;occ;	110;	0;	12210
14;	1480.2;	01-JUL-2004	02:02:47;	Bright;		45.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	90;	0;	12210
15;	1641.2;	01-JUL-2004	02:05:28;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12210
16;	1744.8;	01-JUL-2004	02:07:12;	Bright;		41.0;	98;	13Zet Oph	;	2.57;	30000;occ;	82;	0;	12210
17;	1877.5;	01-JUL-2004	02:09:25;	Bright;		40.5;	120;	1Del Oph	;	2.73;	3200;occ;	81;	0;	12210
18;	1979.7;	01-JUL-2004	02:11:07;	Bright;		39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;	12210
19;	2119.5;	01-JUL-2004	02:13:27;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12210
20;	2281.8;	01-JUL-2004	02:16:09;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12210
21;	2445.7;	01-JUL-2004	02:18:53;	Bright;		37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12210
22;	2647.9;	01-JUL-2004	02:22:15;	Bright;		48.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	97;	0;	12210
23;	2806.6;	01-JUL-2004	02:24:54;	Bright;		39.0;	130;	23Bet Dra	;	2.80;	5800;occ;	78;	0;	12210
24;	2948.0;	01-JUL-2004	02:27:15;	Bright;		39.0;	119;	14Eta Dra	;	2.73;	4700;occ;	78;	0;	12210
25;	3190.4;	01-JUL-2004	02:31:18;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	12210
26;	3339.1;	01-JUL-2004	02:33:46;	Bright;		43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	12210
27;	3442.7;	01-JUL-2004	02:35:30;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12210

/data4\_2/GOMOS/level0/GOM\_NL\_\_0PNPDE20040701\_024108\_000057342028\_00132\_12210\_0075.N1

1;	-2254.9;	01-JUL-2004	02:41:08;	Bright;		50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12210
2;	-2161.2;	01-JUL-2004	02:42:42;	Bright;		41.5;	110;	37Del Cas	;	2.68;	8900;occ;	83;	0;	12210
3;	-1976.0;	01-JUL-2004	02:45:47;	Bright;		46.5;	160;	23Gam Per	;	2.93;	4700;occ;	93;	0;	12210
4;	-1871.6;	01-JUL-2004	02:47:31;	Bright;		36.0;	175;	39Del Per	;	3.01;	19400;occ;	72;	0;	12210
5;	-1770.5;	01-JUL-2004	02:49:13;	Bright;		52.5;	73;	57Gam1And	;	2.26;	13100;occ;	105;	0;	12210
6;	-1616.9;	01-JUL-2004	02:51:46;	Dark	;	68.5;	53;	43Bet And	;	2.05;	3300;occ;	137;	0;	12210
7;	-1355.5;	01-JUL-2004	02:56:08;	Dark	;	66.5;	50;	13Alp Ari	;	2.01;	4250;occ;	133;	0;	12210
8;	-1058.3;	01-JUL-2004	03:01:05;	Dark	;	58.0;	94;	92Alp Cet	;	2.53;	3100;occ;	116;	0;	12210
9;	-835.8;	01-JUL-2004	03:04:47;	Dark	;	46.5;	165;	34Gam Eri	;	2.95;	3200;occ;	93;	0;	12210
10;	-494.4;	01-JUL-2004	03:10:29;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12210
11;	-330.3;	01-JUL-2004	03:13:13;	Dark	;	40.5;	157;	The1Eri	;	2.91;	9300;occ;	81;	0;	12210
12;	-162.7;	01-JUL-2004	03:16:00;	Dark	;	90.5;	52;	16Bet Cet	;	2.04;	4500;occ;	181;	0;	12210
13;	38.0;	01-JUL-2004	03:19:21;	Dark	;	50.0;	9;	Alp Eri	;	0.45;	24000;occ;	100;	0;	12211
14;	314.9;	01-JUL-2004	03:23:58;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	12211
15;	490.7;	01-JUL-2004	03:26:54;	Dark	;	65.5;	63;	Bet Gru	;	2.15;	2800;occ;	131;	0;	12211
16;	587.9;	01-JUL-2004	03:28:31;	Dark	;	82.5;	18;	24Alp PsA	;	1.17;	9700;occ;	165;	0;	12211
17;	747.1;	01-JUL-2004	03:31:10;	Dark	;	44.5;	45;	Alp Pav	;	1.94;	26000;occ;	89;	0;	12211
18;	975.2;	01-JUL-2004	03:34:58;	Dark	;	41.0;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	12211
19;	1062.4;	01-JUL-2004	03:36:25;	Dark	;	41.0;	147;	Alp Ara	;	2.88;	26000;occ;	82;	0;	12211
20;	1170.6;	01-JUL-2004	03:38:14;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	12211
21;	1267.9;	01-JUL-2004	03:39:51;	Dark	;	46.5;	25;	35Lam Sco	;	1.62;	28000;occ;	93;	0;	12211
22;	1355.5;	01-JUL-2004	03:41:19;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;	12211
23;	1480.2;	01-JUL-2004	03:43:23;	Bright;		46.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	92;	0;	12211
24;	1642.0;	01-JUL-2004	03:46:05;	Bright;		39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;	12211
25;	1746.8;	01-JUL-2004	03:47:50;	Bright;		39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	12211
26;	1877.8;	01-JUL-2004	03:50:01;	Bright;		39.5;	120;	1Del Oph	;	2.73;	3200;occ;	79;	0;	12211
27;	1979.9;	01-JUL-2004	03:51:43;	Bright;		38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12211
28;	2120.0;	01-JUL-2004	03:54:03;	Bright;		39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;	12211
29;	2282.2;	01-JUL-2004	03:56:45;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12211
30;	2446.6;	01-JUL-2004	03:59:30;	Bright;		39.0;	133;	40Zet Her	;	2.81;	6000;occ;	78;	0;	12211
31;	2647.3;	01-JUL-2004	04:02:50;	Bright;		48.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	97;	0;	12211
32;	2806.7;	01-JUL-2004	04:05:30;	Bright;		38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;	12211
33;	2950.6;	01-JUL-2004	04:07:54;	Bright;		35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	12211
34;	3190.9;	01-JUL-2004	04:11:54;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;occ;	67;	0;	12211
35;	3338.3;	01-JUL-2004	04:14:21;	Bright;		43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12211
36;	3443.4;	01-JUL-2004	04:16:06;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	12211

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19;	752.3;	22-JUL-2004	04:11:33;	Dark	;	53.5;	63;	Bet Gru	;	2.15;	2800;occ;	107;	0;	12512
20;	838.3;	22-JUL-2004	04:12:59;	Dark	;	54.0;	31;	Alp Gru	;	1.73;	15200;occ;	108;	0;	12512
21;	1013.9;	22-JUL-2004	04:15:55;	Dark	;	78.5;	18;	24Alp PsA	;	1.17;	9700;occ;	157;	0;	12512
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23;	1336.5;	22-JUL-2004	04:21:17;	Dark	;	43.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	86;	0;	12512
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26;	2009.5;	22-JUL-2004	04:32:30;	Bright;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12512	
27;	2144.6;	22-JUL-2004	04:34:45;	Bright;	38.5;	168;	17Zet Aql	;	2.99;	11000;occ;	77;	0;	12512	
28;	2568.1;	22-JUL-2004	04:41:49;	Bright;	41.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	82;	0;	12512	
29;	2733.3;	22-JUL-2004	04:44:34;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12512	
30;	2843.4;	22-JUL-2004	04:46:24;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12512	
31;	2995.2;	22-JUL-2004	04:48:56;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12512	
32;	3154.4;	22-JUL-2004	04:51:35;	Bright;	44.0;	89;	5Alp Cep	;	2.45;	8000;occ;	88;	0;	12512	
33;	3440.9;	22-JUL-2004	04:56:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12512	
34;	3584.4;	22-JUL-2004	04:58:45;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12512	
35;	3683.9;	22-JUL-2004	05:00:25;	Bright;	3.5;	76;	27Gam Cas	;	2.30;	30000;occ;	7;	0;	12512	
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3;	-1930.4;	22-JUL-2004	05:07:26;	Bright;	47.0;	35;	33Alp Per	;	1.79;	6250;occ;	94;	0;	12512	
4;	-1822.8;	22-JUL-2004	05:09:14;	Bright;	72.0;	73;	57Gam1And	;	2.26;	13100;occ;	144;	0;	12512	
5;	-1643.4;	22-JUL-2004	05:12:13;	Dark	;	138.0;	53;	43Bet And	;	2.05;	3300;occ;	276;	0;	12512
6;	-1388.5;	22-JUL-2004	05:16:28;	Dark	;	50.0;	146;	25Eta Tau	;	2.87;	15200;occ;	100;	0;	12512
7;	-1294.9;	22-JUL-2004	05:18:02;	Dark	;	53.0;	13;	87Alp Tau	;	0.87;	3800;occ;	106;	0;	12512
8;	-1167.4;	22-JUL-2004	05:20:09;	Dark	;	39.0;	27;	24Gam Ori	;	1.64;	26000;occ;	78;	0;	12512
9;	-1051.9;	22-JUL-2004	05:22:05;	Dark	;	39.0;	30;	46Eps Ori	;	1.69;	30000;occ;	78;	0;	12512
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11;	-775.2;	22-JUL-2004	05:26:42;	Dark	;	43.0;	101;	11Alp Lep	;	2.58;	7000;occ;	86;	0;	12512
12;	-513.1;	22-JUL-2004	05:31:04;	Dark	;	40.5;	108;	Alp Col	;	2.65;	15200;occ;	81;	0;	12512
13;	-385.0;	22-JUL-2004	05:33:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12512
14;	-145.8;	22-JUL-2004	05:37:11;	Dark	;	46.0;	157;	The1Eri	;	2.91;	9300;occ;	92;	0;	12512
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17;	653.1;	22-JUL-2004	05:50:30;	Dark	;	46.0;	148;	Alp Tuc	;	2.88;	4100;occ;	92;	0;	12513
18;	753.4;	22-JUL-2004	05:52:10;	Dark	;	53.0;	63;	Bet Gru	;	2.15;	2800;occ;	106;	0;	12513
19;	839.1;	22-JUL-2004	05:53:36;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	12513
20;	1012.6;	22-JUL-2004	05:56:29;	Dark	;	84.5;	18;	24Alp PsA	;	1.17;	9700;occ;	169;	0;	12513
21;	1262.5;	22-JUL-2004	06:00:39;	Dark	;	40.5;	178;	Iot1Sco	;	3.02;	6550;occ;	81;	0;	12513
22;	1337.9;	22-JUL-2004	06:01:55;	Dark	;	43.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	87;	0;	12513
23;	1451.5;	22-JUL-2004	06:03:48;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12513	
24;	1556.0;	22-JUL-2004	06:05:33;	Bright;	65.0;	142;	49Del Cap	;	2.85;	8900;occ;	130;	0;	12513	
25;	2010.3;	22-JUL-2004	06:13:07;	Bright;	38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	12513	
26;	2144.9;	22-JUL-2004	06:15:22;	Bright;	40.0;	168;	17Zet Aql	;	2.99;	11000;occ;	80;	0;	12513	
27;	2568.2;	22-JUL-2004	06:22:25;	Bright;	42.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	84;	0;	12513	
28;	2733.4;	22-JUL-2004	06:25:10;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12513	
29;	2843.1;	22-JUL-2004	06:27:00;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12513	
30;	2995.7;	22-JUL-2004	06:29:32;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12513	
31;	3154.2;	22-JUL-2004	06:32:11;	Bright;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12513	
32;	3441.1;	22-JUL-2004	06:36:58;	Bright;	38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	12513	
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 5;-1823.1; 22-JUL-2004 06:49:50; Bright; 69.0; 73; 57Gam1And ; 2.26; 13100;occ; 138; 0;12513  
 6;-1643.5; 22-JUL-2004 06:52:49; Dark ; 170.5; 53; 43Bet And ; 2.05; 3300;occ; 341; 0;12513  
 7;-1388.7; 22-JUL-2004 06:57:04; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;12513  
 8;-1293.5; 22-JUL-2004 06:58:39; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;12513  
 9;-1167.3; 22-JUL-2004 07:00:45; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;12513  
 10;-1051.3; 22-JUL-2004 07:02:41; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;12513  
 11; -914.8; 22-JUL-2004 07:04:58; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;12513  
 12; -774.6; 22-JUL-2004 07:07:18; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;12513  
 13; -512.9; 22-JUL-2004 07:11:40; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;12513  
 14; -384.5; 22-JUL-2004 07:13:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12513  
 15; -144.6; 22-JUL-2004 07:17:48; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;12513  
 16; 214.8; 22-JUL-2004 07:23:48; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;12514  
 17; 389.5; 22-JUL-2004 07:26:42; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12514  
 18; 653.6; 22-JUL-2004 07:31:06; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;12514  
 19; 754.4; 22-JUL-2004 07:32:47; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;12514  
 20; 839.8; 22-JUL-2004 07:34:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;12514  
 21; 1013.5; 22-JUL-2004 07:37:06; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12514  
 22; 1262.6; 22-JUL-2004 07:41:15; Dark ; 41.0; 178; Iot1Sco ; 3.02; 6550;occ; 82; 0;12514  
 23; 1338.0; 22-JUL-2004 07:42:31; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;12514  
 24; 1452.1; 22-JUL-2004 07:44:25; Bright; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;12514  
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 22; -383.9; 22-JUL-2004 08:54:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12514  
 23; -144.1; 22-JUL-2004 08:58:24; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;12514  
 24; 215.5; 22-JUL-2004 09:04:24; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;12515  
 25; 389.7; 22-JUL-2004 09:07:18; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;12515  
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 27; 754.9; 22-JUL-2004 09:13:23; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;12515  
 28; 840.4; 22-JUL-2004 09:14:49; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;12515  
 29; 1014.5; 22-JUL-2004 09:17:43; Dark ; 84.5; 18; 24Alp PsA ; 1.17; 9700;occ; 169; 0;12515  
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 31; 1452.2; 22-JUL-2004 09:25:01; Bright; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;12515  
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 8;-2452.8; 22-JUL-2004 10:00:32; Bright; 53.5; 74; 11Bet Cas ; 2.27; 6600;occ; 107; 0;12515



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25; 654.9; 22-JUL-2004 10:52:19; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;12516
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29; 393.1; 23-JUL-2004 11:56:57; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12531
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34; 1390.2; 23-JUL-2004 12:13:34; Dark ; 49.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 99; 0;12531
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32; 1034.4; 23-JUL-2004 13:48:14; Dark ; 78.5; 18; 24Alp PsA ; 1.17; 9700;occ; 157; 0;12532
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33; 873.4; 23-JUL-2004 15:26:09; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12533
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27; 1843.1; 26-JUL-2004 04:03:52; Bright; 64.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 129; 0;12569
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26; -25.9; 31-JUL-2004 17:40:37; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;12648
27; 305.4; 31-JUL-2004 17:46:08; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;12649
28; 421.3; 31-JUL-2004 17:48:04; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;12649
29; 590.5; 31-JUL-2004 17:50:53; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;12649
30; 716.2; 31-JUL-2004 17:52:59; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;12649
31; 917.5; 31-JUL-2004 17:56:20; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;12649

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